Page 1. (No. of pages: - 3) ALBOTRALTY SIGNAL ESTABLISHMENT



| Specification AD/CV1257/Issue 5. | SEC | RTTY |
|---|----------------------|------------------------------|
| Pated 17.7.47. To be read in conjunction with K1001, ignoring clauses: 5.2; 5.3; 5.8. | Specn. Restricted | <u>Yalve</u> Unclassified |

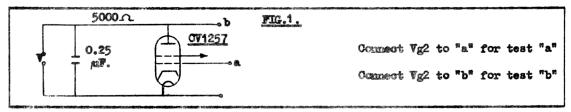
| TYPE OF VALVE: - Adr-cooled modulator tetrode. CATHODE: - Indirectly heated, oxide coated. | | | | | | MARKING See E1001/4. | | |
|---|-------------------------|--------------------------|---|---|-------------------------|--|--|--|
| PROTOTYPE:- | Motal glass. E.1155. | PASE | | | | | | |
| | RATING | See K1001/AIV/D7. | | | | | | |
| | | , | | Note | Pin | Electrode | | |
| Heater Voltage Heater Current Max. Screen Volta Max. Amode Voltag Max. Amode Dissip | 18 (| (A) FA) (Y) (A) | 8.0 6 2 12 60 | A | 1 2 3 4 | Grid Heater Grid Heater and Cathoda | | |
| Max. Screen Dissi CAPACITANCES (p | 10 | | CONTRACTOR ACTIVITIES | SIONS AND CONNECTIONS Dage 2, Fig.). | | | | |
| Ca - all Cg - all Cag | | | 7.4 to 11.1 20.0 to 33.0 1.0 | } B | PACKAGING See K1005. | | | |
| Heater Current Max. Screen Volta Max. Amode Voltag Max. Amode Dissip Max. Screen Dissi CAPACITANCES (p Ca - all Cg - all | ge (| | 6 2 12 60 10 7.4 to 11.1 20.0 to 33.0 | Note | Pin 1 2 3 4 DIMES | Electrods Grid Heater Grid Heater and Cathods ISIONS AND CONNECTION Mage 2, Fig.). PACKAGINE | | |

- A. The filament volts should always be run up slowly, and not switched on fully at
- B. Checked at Type Approval.

To be performed in addition to those applicable in K1001.

| | | | do Tournament and an annual supplementary | | | ANTONIA CONTRACTOR | STATE OF THE PERSON NAMED IN | | Authoritis en de la company de | CALIFORNIA MARINA MARINA |
|---|---------------|--|--|---------------------------------|----------------|------------------------------------|------------------------------|--------|--|--|
| | | NAME OF TAXABLE PARTY. | Condition | CHARLES HOUSE HAVE AND ADDRESS. | | Test | Lim | Limits | | - |
| | Vh (∇) | $\forall a \forall g \neq v $ | ∀g1 (∀) | Ia (mA) | In+Ig2 (mA) | | Min. | Max. | Tested. | Hotes |
| a | 8.5 | =Vg1 | | 1 | | Anode hot flash | | | 100% | 1 |
| | and | ee Fig.1.) : maintained stantially o | there unt | | | process. | | | | anning program and the program and the |
| Ъ | 8.5 | ≖Va | Ad- justed | | 2 | Grid hot flash | | | 100% | 1 |
| | and | ee Fig.1.) : maintained stantially | there unt | | | process. | | | | |
| C | 8.0 | | | | | Ih (A | 5.45 | 6.65 | 100% | Proceeding Control Septem |
| đ | 8.0 | 7500 | Ad- justed | | 150 | -Ig1 total after 5 mins. (mA | | 150 | 100% | |
| • | 8.0 | Adjusted = x (say) | -80 | | 100 | "Amplification factor" | | | 100% | |
| | 8.0 | Adjusted = y (say) | 0 | | 100 | <u>X-Y</u> 80 | 3.5 | 5•5 | | |

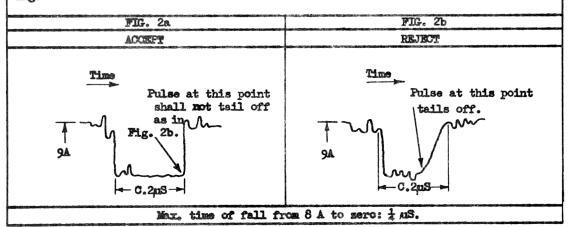
| | Test Conditions Vh | | | | | | Test | and a training of the control | Limits | | No. Tested | Notes |
|---|---|-------|------|-----|------|------|---------------------|-------------------------------|--------|------|---------------|-------|
| | (A) | (A) | (¥) | (v) | (mA) | (mA) | | | Min. | Max. | Tested | |
| f | 800 | 12000 | 2000 | | 1 | | Cut-off | 4 | | | | |
| | To apply only to valves whose factor in 'e' is less than 4.5. | | | | | -¥g1 | (V) | ests | 1,100 | 63 | | |
| g | 8.0 | 3000 | =Va | 0 | | | Peak | Care median | | | | |
| | Peak Ia+Ig2 ourrent measured. | | | | | | (Ia+Ig2) current | (A) | 12 | | 100% | 2 |

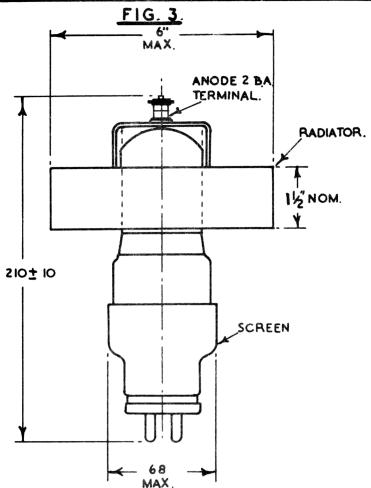


HOTES

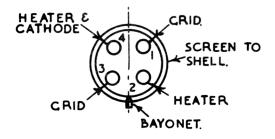
- 1. Processes "a" and "b" need be applied once only to each valve.
- (a) Peak (Ia+Ig2) to be measured with Tp = 2 mS, FRF = 50 p/s, the pulse shape to be simusoidal.
 - (b) Test "g" may be considered satisfied provided the following operational test is passed. In all cases of doubt test "g" shall be the deciding test:-

The test shall be carried out in an approved transmitter of the 271 type replacing the NT98 by a non-inductive 1000-ohm resistance. The peak current through this resistor is to be adjusted to 9-A, measured by means of the 5-ohm non-inductive monitoring resistance in the transmitter box. The shape of the pulse must be sensibly square (see Figs. 2a and 2b) and there must be no continued flashing.





VIEW OF BASE.



ALL DIMENSIONS ARE IN MILLIMETRES EXCEPT WHERE OTHERWISE STATED.